



Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR 1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
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	A3	4,356,866	11/02/1982	Savins			
	A4	4,396,075	08/02/1983	Wood et al.			
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	A6	5,207,271	05/04/1993	Sanchez et al.			
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	A8	5,664,911	09/09/1997	Bridges et al.			
	A9	5,733,067	03/31/1998	Hunt et al.			
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	A11	2005/0257962	11/24/2005	Zupanick			
	A12	2006/0096755	05/11/2006	Zupanick			

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	B1	WO 03/036023	05/01/2003	WIPO			N/A	
	B2	UA 37,720 A	05/15/2001	Ukraine			Spec Only	

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Examiner Initial	Desig. ID	Document
	C1	Notification of Transmittal of the International Preliminary Report of Patentability (1 page) and International Preliminary Report on Patentability (12 pages) mailed January 9, 2006 for International Application No. PCT/US2004/036616
↓	C2	Notification Concerning Transmittal of Copy of International Preliminary Report on Patentability (Chapter 1 of the Patent Cooperation Treaty) (1 page), International Preliminary Report on Patentability (1 page), and Written Opinion of the International Searching Authority (7 pages) mailed December 22, 2005 for International Application No. PCT/US2004/017048
HD	C3	European Search and Examination Report, completed December 5, 2005 for Application Number EP 05020737, 5 pages

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HD	C114	Warren F. Dobson and Daniel R. Seelye, "Mining Technology Assists Oil Recovery from Wyoming Field," SPE 9418, Society of Petroleum Engineers of AIME, Copyright 1980, 7 pages
	C115	T.L. Logan, J.J. Schwoebel and D.M. Horner, "Application of Horizontal Drainhole Drilling Technology for Coalbed Methane Recovery," SPE/DOE 16409, Society of Petroleum Engineers/U.S. Department of Energy, Copyright 1997, 12 pages
	C116	Samuel O. Osisanya and Robert F. Schaffitzel, "A Review of Horizontal Drilling and Completion Techniques for Recovery of Coalbed Methane," SPE 37131, Society of Petroleum Engineers, Copyright 1996, 13 pages
	C117	S.D. Joshi, "A Review of Horizontal Well and Drainhole Technology," SPE 16868, Society of Petroleum Engineers, Copyright 1987, 17 pages
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	C121	"Evolution Toward Simpler, Less Risky Multilateral Wells," WORLD OIL, prepared from paper SPE/IADC 67825 by Adam Pasicznyk, June 2001, 8 pages
	C122	"How Multilateral Boreholes Impact Ultimate Recovery Strategies," OFFSHORE, July 1997, 6 pages
	C123	"Trilateral Horizontal Wells Add 10 Million bbl for Unocal," OFFSHORE, December 1993, 2 pages
	C124	Nicholas P. Chironis, "New Borehole Techniques Offer Hope for Gassy Mines," COAL AGE, January 1973, 4 pages
	C125	A. Retnanto, T.P. Frick, C.W. Brand, and M.J. Economides, "Optimal Configurations of Multiple-Lateral Horizontal Wells," SPE 35712, Society of Petroleum Engineers, Copyright 1996, 8 pages
	C126	T.L. Logan, "Horizontal Drainhole Drilling Techniques Used for Coal Seam Resource Exploitation," SPE 18254, Society of Petroleum Engineers, Copyright 1988, 13 pages
	C127	David Hill, Eric Neme, Christine Enlig-Economides and Miguel Mollinedo, "Reentry Drilling Gives New Life to Aging Fields," OILFIELD REVIEW, Autumn 1996, 14 pages
	C128	R.L. Thoms and R.M. Gehle, "Feasibility of Controlled Solution Mining From Horizontal Wells," Solution Mining Research Institute, October 24-27, 1993, 8 pages
	C129	"World's First Trilateral Horizontal Wells on Stream," Oil & Gas Journal, November 29, 1993, 2 pages
	C130	Margaret A. Adams, Jeanne L. Hewitt and Rodney D. Malone, "Coalbed Methane Potential of the Appalachians," SPE/DOE 10802, Society of Petroleum Engineers, Copyright 1982, 10 pages
↓	C131	F.C. Schwerer and A.M. Pavone, "Effect of Pressure-Dependent Permeability on Well-Test Analyses and Long-Term Production of Methane From Coal Seams," SPE/DOE/GRI 12857, Society of Petroleum Engineers, Copyright 1984, 10 pages
HD	C132	Stephen Krickovic and J.D. Kalasky, "Methane Emission Rate Study in a Deep Pocahontas No. 3 Coalbed Mine in Conjunction With Drilling Degasification Holes in the Coalbed," RI-7703, Bureau of Mines Report of Investigations/1972, United States Department of the Interior, 1972, 15 pages

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EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 17601-038001	Application No. 10/769,221
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant <b>Joseph A. Zupanick</b>	
		Filing Date <b>January 30, 2004</b>	Group Art Unit <b>3672</b>

Other Documents (include Author, Title, Date, and Place of Publication)		
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HD	C133	H.H. Fields, Joseph Cervik, and T.W. Goodman, "Degasification and Production of Natural Gas From an Air Shaft in the Pittsburgh Coalbed," RI-8173, Bureau of Mines Report of Investigations/1976, United States Department of the Interior, 1976, 28 pages
	C134	Gerald L. Finfinger and Joseph Cervik, "Drainage of Methane From the Overlying Pocahontas No. 4 Coalbed From Workings in the Pocahontas No. 3 Coalbed," RI-8359, Bureau of Mines Report of Investigations/1979, United States Department of the Interior, 1979, 19 pages
	C135	Gerald L. Finfinger and Joseph Cervik, "Review of Horizontal Drilling Technology for Methane Drainage From U.S. Coalbeds," IC-8829, Bureau of Mines Information Circular/1980, United States Department of the Interior, 1980, 24 pages
	C136	Andre P. Jourdan and Guy A. Baron, "Elf Drills 1,000 + Ft Horizontally," PETROLEUM ENGINEER INTERNATIONAL, September 1981, 4 pages
	C137	P.F. Conti, "Controlled Horizontal Drilling," SPE/IADC 18708, Society of Petroleum Engineers, Copyright 1989, 6 pages
	C138	Armando R. Navarro, "Innovative Techniques Cut Costs in Wetlands Drilling," OIL & GAS JOURNAL, October 14, 1991, 4 pages
	C139	Victor M. Luhowy and Peter D. Sametz, "Horizontal Wells Prove Effective in Canadian Heavy-Oil Field," OIL & GAS JOURNAL, June 28, 1993, 6 pages
	C140	D. Lane Becker, "Project Management Improved Multiwell Shallow Gas Development," OIL & GAS JOURNAL, October 16, 1995, 5 pages
	C141	Mike R. Chambers, "Junction Design Based on Operational Requirements," OIL & GAS JOURNAL, December 7, 1998, 7 pages
	C142	A.J. Branch, et al., "Remote Real-Time Monitoring Improves Orinoco Drilling Efficiency," OIL & GAS JOURNAL, May 28, 2001, 6 pages
	C143	D. Keith Murray, "Deep Coals Hold Big Part of Resource," THE AMERICAN OIL & GAS REPORTER, May 2002, 8 pages
	C144	Nestor Rivera, et al., "Multilateral, Intelligent Well Completion Benefits Explored," OIL & GAS JOURNAL, April 14, 2003, 10 pages
	C145	HANDBOOK ON COAL BED METHANE PRODUCED WATER: MANAGEMENT AND BENEFICIAL USE ALTERNATIVES, prepared by ALL Consulting, July 2003, 321 pages
	C146	Nikola Maricic, "Parametric and Predictive Analysis of Horizontal Well Configurations for Coalbed Methane Reservoirs in Appalachian Basin," Thesis, West Virginia University, Department of Petroleum and Natural Gas Engineering, 2004, 162 pages
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↓	C149	P.C. Thakur, "Optimum Methane Drainage in Gassy Coal Mines," 2003 SME Annual Meeting, copyright 2003 by SME, 4 pages
HD	C150	Global Methane and the Coal Industry: A Two-Part Report on Methane Emissions from the Coal Industry and Coalbed Methane Recovery and Use, Coal Industry Advisory Board, International Energy Agency, copyright 1994, 72 pages

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<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Joseph A. Zupanick	
		Filing Date January 30, 2004	Group Art Unit 3672

Other Documents (include Author, Title, Date, and Place of Publication).		
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HD	C151	Michael Schumacher, AKZO Salt Inc., "Solution Mining in the Nineties," believed to be in December 2005, 8 pages
HD	C152	Pratt et al., U.S. Patent Application entitled "Cavity Well System," S/N 11/141,335, May 31, 2005, 19 pages

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